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Published on SBIR.gov (<https://www.sbir.gov>)

[1. 13.2-FH1: Development of Innovative Welding for High Performance Bridge Steel](#)

Release Date: 07-25-2013 Open Date: 07-25-2013 Due Date: 09-23-2013 Close Date: 09-23-2013

Steel bridge fabrication has changed little since the 1950s when welding steel began to dominate over riveting. The recent 20 years has seen two innovations in steel bridge fabrication. One has been the advent of high performance steels (HPS) in the mid-1990s that provided higher yield strengths, higher fracture toughness, and most importantly, an increased weldability over conventiona ...

SBIR Department of Transportation

[2. 13.2-FM1: Affiliation Strength/Risk Model Development for Motor Carrier Succession](#)

Release Date: 07-25-2013 Open Date: 07-25-2013 Due Date: 09-23-2013 Close Date: 09-23-2013

The Federal Motor Carrier Safety Administration (FMCSA) is responsible for regulating the safety of interstate truck and bus travel in the United States. The primary mission of FMCSA is to reduce crashes, injuries and fatalities involving large trucks and buses. FMCSA's strategic framework is built upon three core principles: Raise the bar to enter the industry; Require operators to ...

SBIR Department of Transportation

[3. 13.2-FH2: Game-based technology and Database to Train Pre-Drivers, Young Drivers, and Older Drivers to Detect Traffic Hazards and Respond Appropriately](#)

Release Date: 07-25-2013 Open Date: 07-25-2013 Due Date: 09-23-2013 Close Date: 09-23-2013

Motor vehicle crashes killed an average of 40,398 people in the U.S. each year from 2000 through 2010, despite declines to 37,423 in 2008, 33,808 in 2009, and 32,885 in 2010 during harsh economic conditions from which the country is slowly recovering (National Highway Traffic Safety Administration, 2012). As a cause of death in the U.S. in 2009, traffic crashes ranked first among both 5-14 an ...

SBIR Department of Transportation

[4. 13.2-PH1: Pipeline Integrity Assessment Using In-Line Inspection](#)

Release Date: 07-25-2013 Open Date: 07-25-2013 Due Date: 09-23-2013 Close Date: 09-23-2013

There is a current need better pipeline inspection technology to enable improved inspection of both oil and gas pipelines for internal corrosion, external corrosion, mechanical damage, and longitudinal and transverse cracks. A new and evolving interest across the industry is for an inspection technology that can measure longitudinal strain. This Small Business Innovation Research (SBIR) topi ...

SBIR Department of Transportation

5. [13.2-PH2: Modeling cathodic protection penetration on new construction pipelines incorporating all types of "foam" sack breakers and supports](#)

Release Date: 07-25-2013 Open Date: 07-25-2013 Due Date: 09-23-2013 Close Date: 09-23-2013

When a pipeline is constructed a ditch is dug to applicable depths based on federal regulation and is prepared for the pipeline that will be laid within the construction ditch. When the pipeline is placed in the ditch it requires support and padding to protect the coating and align it to the topography of the ditch in preparation for back fill. There are many types of material that can be used to ...

SBIR Department of Transportation

6. [13.2-PH3: Develop and demonstrate new non-destructive evaluation methods to quantify remaining strength of line pipe steel and or pipeline fittings](#)

Release Date: 07-25-2013 Open Date: 07-25-2013 Due Date: 09-23-2013 Close Date: 09-23-2013

The U.S. Code of Federal Regulations (CFR) Title 49, Parts 192 and 195 stipulates that ASME B31G or RSTRENG be used to assess the remaining strength of corroded pipe. A review of existing burst test data raised some concerns that use of these methods can, in some instances, result in predicted failure pressures that are greater than the recorded burst pressures from actual tests. No burst testing ...

SBIR Department of Transportation

7.

Release Date: 07-25-2013 Open Date: 07-25-2013 Due Date: 09-23-2013 Close Date: 09-23-2013

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SBIR Department of Transportation

8. [13.1-FR1: Low Ground Clearance Vehicle Detection and Warning System](#)

Release Date: 12-10-2012 Open Date: 12-10-2012 Due Date: 03-04-2013 Close Date: 03-04-2013

High profile highway-rail grade crossings present a severe risk to low ground clearance vehicles such as low-boys, car-carriers, low-floor urban transit buses, and farm equipment trailers in the United States. When such a vehicle traverses a high-profile roadway section, such as a high-profile grade crossing, the vehicle may become stuck on the hump of the crossing and then be struck by a train. ...

SBIR Department of Transportation

9. [13.1-FT1: Transit Safety](#)

Release Date: 12-10-2012Open Date: 12-10-2012Due Date: 03-04-2013Close Date: 03-04-2013

The new authorization, Moving Ahead for Progress in the 21st Century (MAP-21) gives FTA significant new authority to strengthen the safety of public transportation systems throughout the United States. The FTA is seeking exploratory proposals that will demonstrate innovative, economical and durable technologies and devices or solutions that will improve and revolutionize the safety of public tran ...

SBIR Department of Transportation

10. [13.1-FT2: Improved Decision Support Tools for State of Good Repair](#)

Release Date: 12-10-2012Open Date: 12-10-2012Due Date: 03-04-2013Close Date: 03-04-2013

The new authorization, Moving Ahead for Progress in the 21st Century (MAP-21) gives FTA authority to establish a State of Good Repair grant program to strengthen the state of public transportation infrastructure throughout the United States. The new authorization also requires transit asset management plans from recipients and sub-recipients of Federal financial assistance. The FTA is seeking ex ...

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